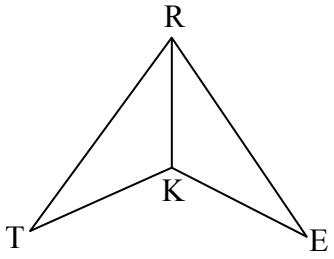
HOMEWORK

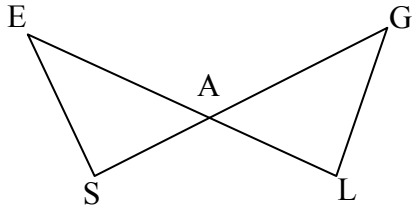
Name: _____
Date: _____ Block: ____

Foundations Level

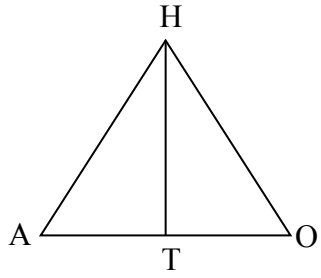
1. Given: TR ≅ RE, ∠TRK ≅ ∠ERK
   Prove: ∠T ≅ ∠E



2. Given: ES ≅ GL, ∠S ≅ ∠L
   Prove: SA ≅ AL



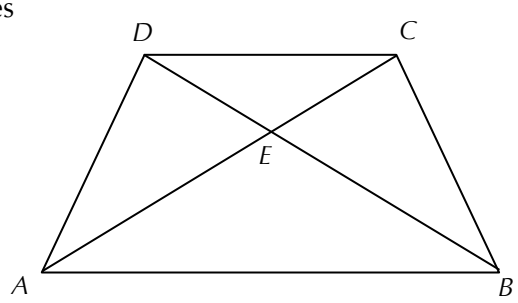
3. Prove the following statement: If $\overline{HT} \perp \overline{AO}$ and $\angle A \cong \angle O$ then $\overline{HT}$ bisects $\overline{AO}$.



Application/Extension Level

1. Given: $\overline{AD} \cong \overline{BC}, \angle DAB \cong \angle CBA$

   Prove: ΔABE is isosceles



2. Given: $\overline{FJ}$ is the base of an isosceles triangle. $\overline{FG} \cong \overline{JH}$, O is the midpoint of $\overline{MF}$, and K is the midpoint of $\overline{MJ}$.

   Prove: $\overline{OH} \cong \overline{KG}$